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Ashmanov, I.; Kasperskaya, N.;
Multimedia, IEEE
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☐ 2. **A distributed architecture for an adaptive computer virus immune system**
Marmelstein, R.E.; Van Veldhuizen, D.A.; Lamont, G.B.;
Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference on
Volume 4, 11-14 Oct. 1998 Page(s):3838 - 3843 vol.4
Digital Object Identifier 10.1109/ICSMC.1998.726686

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☐ 3. **Poison Java [data security]**
Chen, E.;
Spectrum, IEEE
Volume 36, Issue 8, Aug. 1999 Page(s):38 - 43
Digital Object Identifier 10.1109/6.780997

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☐ 4. **A generic virus detection agent on the Internet**
Jieh-Sheng Lee; Jieh Hsiang; Po-Hao Tsang;
System Sciences, 1997, Proceedings of the Thirtieth Hawaii International Conference on
Volume 4, 7-10 Jan. 1997 Page(s):210 - 219 vol.4
Digital Object Identifier 10.1109/HICSS.1997.663390

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☐ 5. **Neural-network speech processing for toys and consumer electronics**
Mozer, M.C.;
Expert, IEEE [see also IEEE Intelligent Systems and Their Applications]
Volume 11, Issue 4, Aug. 1996 Page(s):4
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System Sciences, 2000. Proceedings of the 33rd Annual Hawaii International Conference on
Jan 4-7 2000 Page(s):10 pp. vol.1

7. **Classical taxonomy: a holistic perspective of temperature measuring systems and instruments**
Henderson, I.A.; McGhee, J.;
Science, Measurement and Technology, IEE Proceedings A
Volume 140, Issue 4, Jul 1993 Page(s):263 - 268

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Grossman, M.;
Spectrum, IEEE
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McDonald, J.C.;
Selected Areas in Communications, IEEE Journal on
Volume 12, Issue 1, Jan. 1994 Page(s):5 - 12
Digital Object Identifier 10.1109/49.265698

10. **Firewalls: an expert roundtable**
Anderson, J.P.; Brand, S.; Gong, L.; Haigh, T.;
Software, IEEE
Volume 14, Issue 5, Sept.-Oct. 1997 Page(s):60 - 66
Digital Object Identifier 10.1109/52.605932

11. **Life as it could be: Alife attempts to simulate evolution**
Forbes, N.;
Intelligent Systems and Their Applications, IEEE [see also IEEE Intelligent Systems]
Volume 15, Issue 6, Nov.-Dec. 2000 Page(s):2 - 7
Digital Object Identifier 10.1109/5254.895847

12. **Security and privacy**
Milojicic, D.;
Concurrency, IEEE [see also IEEE Parallel & Distributed Technology]
Volume 8, Issue 2, April-June 2000 Page(s):70 - 79
Digital Object Identifier 10.1109/MCC.2000.846196

13. **Thinking in systems; working on processes... the new business paradigm**
Howard, D.;
IT Support for Business Process Re-Engineering, IEE Colloquium on
11 Jun 1996 Page(s):1/1 - 112

14. **The International Space Station: A Question of Federal Funding and Policy Implications**
Tee Wee Ang;
Aerospace and Electronic Systems Magazine, IEEE
Volume 13, Issue 7, July 1998 Page(s):24a - 24p
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Mann, S.;

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McGhan, H.; O'Connor, M.;

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C Nachenberg - Communications of the ACM, 1997 - portal.acm.org
... tine that used 80286-specific machine-language instruc- tions, then the 80486 CPU
emulator might be unable to properly **emulate** and decrypt the **virus**. ...
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<u>... microscopy predicts an envelope-associated icosadeltahedral capsid for human immunodeficiency **virus**
...</u>
PA Marx, RJ Munn, KI Joy - Lab Invest, 1988 - ncbi.nlm.nih.gov
Computer **emulation** of thin section electron microscopy predicts an envelope-associated
icosadeltahedral capsid for human immunodeficiency **virus**. ...
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JS Lee, J Hsiang, PH Tsang - System Sciences, 1997, Proceedings of the Thirtieth Hawaii ..., 1997 - ieeexplore.ieee.org
... The **Virus** Instruction Code **Emulation** (VICE) Methodology A. Motivation The combination
of scan and trap tools is the most common weapon against viruses among ...
<u>Cited by 2</u> - <u>Web Search</u> - <u>BL Direct</u>

<u>The **Virus** Encyclopedia: reaching a new level of information comfort - group of 2 »</u>
I Ashmanov, N Kasperskaya - Multimedia, IEEE, 1999 - ieeexplore.ieee.org
... For some interesting viruses the Kaspersky Lab **virus** researchers save screensliots
or write simple demo programs that **emulate virus** effects on the screen (see ...
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<u>Chemotherapy and vaccination: a possible strategy for the control of highly virulent influenza **virus** ... -
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PH Duesberg - 1997 - books.google.com
... KARY MULLIS Page 2. Inventing the AIDS **Virus** .. ...1llllli••——• jl Page 3. INVENTING
THE AIDS **VIRUS** Dr. Peter Duesberg REGNERY PUBLISHING, INC. ...
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<u>Aujeszky's disease **virus**: opportunities and challenges - group of 4 »</u>
FA Zuckermann - Vet. Res, 2000 - edpsciences.org
... These include recombinant swinepox **virus**, vaccinia **virus** and replica- tion deficient ...
that the effectiveness of DNA vaccination can be made to **emulate** the level ...
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<u>AI trends in **virus** control</u>
I Qasem, H Yaghi - Southeastcon'91., IEEE Proceedings of, 1991 - ieeexplore.ieee.org
... (omputer **virus** programs have the abilities to exhibit paths in ... Expert systems are
computer programs that try to **emulate** human experts in solving problems. ...
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... Microsoft Excel. Competing software products that **emulate** the Word macro
language are spreading the **virus** as well. Macro viruses ...

Outburst! A Chilling True Story about Emerging-**Virus** Narratives and Pandemic Social Change - group of 2 »

H Schell - Configurations, 1997 - muse.jhu.edu
... Not only Preston but several other of the popular science writers try somewhat to
emulate scientific **virus** hunters, possibly because viruses in Africa are more ...
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PA Marx, RJ Munn, KI Joy - Lab Invest, 1988 - ncbi.nlm.nih.gov
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icosadeltahedral capsid for human immunodeficiency **virus**. ...
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AUTOMATICALLY GENERATED WIN32 HEURISTIC **VIRUS** DETECTION - group of 6 »
W Arnold, G Tesauro - **VIRUS**, 2000 - madchat.org
... decrypted regions of viruses run under **emulation**, if the detector would be used
in a **virus** scanner capable of running Win32 executables under **emulation**. ...
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[PS] Dynamic detection and classification of computer viruses using general behaviour patterns - group of 7 »
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info.fundp.ac.be
... be stopped too. The **emulation** is \safe" because the running **virus** has
no access to the host machine at all. This is because the ...
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ATTACKS ON WIN32–PART II - group of 24 »
P Ször - **VIRUS**, 2000 - madchat.org
... extremely slow. (Cryptographic methods detect the **virus** without
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... The **Virus** Instruction Code **Emulation** (VICE) Methodology A. Motivation The combination
of scan and trap tools is the most common weapon against viruses among ...
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AD Allen, A Inc, CA Northridge - Systems, Man and Cybernetics, 1990. Conference Proceedings., ..., 1990 - ieeexplore.ieee.org
... was strongly nonlinear and based on the known biological properties of the **virus**. ...
natural, I used a technique that might be called "random **emulation**, and in ...
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[CITATION] Design of ATM circuit emulation service terminal adaptor
TL Kao, YC Lee, KT Wu - Microprocessors and Microsystems, 2000
... The asynchronous transfer mode (ATM) Circuit **Emulation** Service (CES) terminal adapter
(TA ... I.; Dinari, G.; Tur-Kaspa, R., "Transfusion-transmitted **virus** in liver ...
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B Le Charlier, A Mounji, M Swimmer, VT Center - ... of Fifth International **Virus** Bulletin Conference, Boston, ..., 1995 -
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... The example is from an audit trail of the Vienna **virus**. ... In the next section, we show
how the activity data produced by the **emulator** is analyzed using ASAX. ...
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W Arnold, G Tesauro - **VIRUS**, 2000 - madchat.org
... Examples include discovery of features in **virus** scanner **emulator** traces, in
real-time scanner audit trails, and in system audit trails. Page 9. ...
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JS Lee, J Hsiang, PH Tsang - System Sciences, 1997, Proceedings of the Thirtieth Hawaii ..., 1997 - ieeexplore.ieee.org
... In this paper we describe a generic **virus** detection method Our method employs
two main mechanisms, an **emulator** and a **virus** analyzer. ...
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P Ször - **VIRUS**, 2000 - madchat.org
... Some **virus** writers also introduced anti-emulation techniques against the
strongest component of the anti-**virus** product: the **emulator**. ...
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Future Trends in <u>**Virus** Writing</u> - <u>group of 3 »</u>
V BONTCHEV - International Review of Law, Computers & Technology, 1997 - Taylor & Francis
... Probably the most effective is to use some kind of **emulator**, which interprets the
decryption routine until the **virus** body is decrypted, and then to apply some ...
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STRIPPING DOWN AN AVENGINE - <u>group of 4 »</u>
I Muttik - **VIRUS**, 2000 - download.nai.com
... which actions are really performed (that is simulation of a **virus** execution in a
virtual environment, frequently called a 'sandbox' or an **emulator** buffer). ...
<u>Cited by 3</u> - <u>View as HTML</u> - <u>Web Search</u>

An immune system for cyberspace - <u>group of 2 »</u>
JO Kephart, GB Sorkin, M Swimmer - Systems, Man, and Cybernetics, 1997.'Computational ..., 1997 - ieeexplore.ieee.org
... it. The system is being in- tegrated with a commercial anti-**virus** product,
IBM ... ftp. However, suppose a **virus** infected a mobile agent. ...
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Blueprint for a Computer Immune System - <u>group of 3 »</u>
JO Kephart, GB Sorkin, M Swimmer, SR White - Proceedings of the **Virus** Bulletin International Conference, ..., 1997 -
research.ibm.com
... So, file and boot **virus** samples are sent to an **emulator** (or to a real machine running
the appropriate platform), Microsoft Word macro viruses to a WindowsNT ...
<u>Cited by 27</u> - <u>Cached</u> - <u>Web Search</u>

Vulnerabilities in pure software security systems - group of 5 »

R Bjones, S Hoeben - Utimaco SoftwareAG, 2000 - utimaco.pl

... that allows you to do very advanced commands - as with the **emulators** - but which ...
hacker could also use deployment concepts like the ones used by **virus** builders ...

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1 Computer virus-antivirus coevolution

Carey Nachenberg
January 1997 **Communications of the ACM**, Volume 40 Issue 1

Publisher: ACM Press

Full text available: pdf(317.53 KB)   Additional Information: full citation, citings, index terms, review

2 Interposition agents: transparently interposing user code at the system interface

Michael B. Jones
December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(1.55 MB)   Additional Information: full citation, abstract, references, citings, index terms

Many contemporary operating systems utilize a system call interface between the operating system and its clients. Increasing numbers of systems are providing low-level mechanisms for intercepting and handling system calls in user code. Nonetheless, they typically provide no higher-level tools or abstractions for effectively utilizing these mechanisms. Using them has typically required reimplementation of a substantial portion of the system interface from scratch, making the use of such facilitie ...

3 HEmut-PoliCaza: introducing Ada in the university through PC anti-virus software development

Alvaro Hermida
December 1992 **Proceedings of the conference on TRI-Ada '92**

Publisher: ACM Press

Full text available: pdf(784.32 KB)   Additional Information: full citation, references, index terms

4 A bit of viral protection is worth a megabyte of cure

Tim Fitzgerald
June 1995 **ACM SIGUCCS Newsletter**, Volume 25 Issue 1-2

Publisher: ACM Press

Full text available: pdf(427.33 KB)   Additional Information: full citation, abstract, index terms

Even in today's world of safeguarded networks and advanced detection software, computer viruses are still running amok in some of the seedier niches of cyberspace and hiding out on unclean disks and unprotected hard drives. Speculative rumors of wide-spread epidemics have only added to the confusion as computer users all over the world

wonder if their systems are at risk and if there is any way to shield themselves from these stealth operatives of electronic malfeasance.

5 Two years of experience with a &mgr;-Kernel based OS

Jochen Liedtke, Ulrich Bartling, Uwe Beyer, Dietmar Heinrichs, Rudolf Ruland, Gyula Szalay
April 1991 **ACM SIGOPS Operating Systems Review**, Volume 25 Issue 2
Publisher: ACM Press

Full text available: pdf(829.22 KB)   Additional Information: full citation, abstract, citings, index terms

> This paper describes the basic components of the L3 operating system and the experiences of the first two years using it. The system results from scientific research, but is addressed to commercial application. It is based on a small kernel handling tasks, threads and dataspaces. User level device drivers and file systems are described as examples of flexible OS services realized outside the kernel.

6 The structure and performance of interpreters

Theodore H. Romer, Dennis Lee, Geoffrey M. Voelker, Alec Wolman, Wayne A. Wong, Jean-Loup Baer, Brian N. Bershad, Henry M. Levy
September 1996 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII**, Volume 31 , 30 Issue 9 , 5
Publisher: ACM Press

Full text available: pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Interpreted languages have become increasingly popular due to demands for rapid program development, ease of use, portability, and safety. Beyond the general impression that they are "slow," however, little has been documented about the performance of interpreters as a class of applications.This paper examines interpreter performance by measuring and analyzing interpreters from both software and hardware perspectives. As examples, we measure the MIPSI, Java, Perl, and Tcl interpreters running an ...

7 Teaching an old bard new tricks: Shakespeare Interactive Archive

Lee Ridgway
June 1995 **ACM SIGUCCS Newsletter**, Volume 25 Issue 1-2
Publisher: ACM Press

Full text available: pdf(230.89 KB)   Additional Information: full citation, abstract, index terms

> The Shakespeare Interactive Archive is the rather unassuming name of a multimedia project whose ambition is to be a model for the future in Shakespearian studies. Its creator, Peter Donaldson, Professor of Literature, envisions this computer-based project as a comprehensive, international archive that networks as many libraries and resources as possible. Textual, visual, and moving image files would all be linked.

8 Consulting through electronic mail

Elizabeth R. Pohlhaus
November 1997 **Proceedings of the 25th annual ACM SIGUCCS conference on User services: are you ready?**
Publisher: ACM Press

Full text available: pdf(814.86 KB)   Additional Information: full citation, index terms

9 Risks to the public in computers and related systems

Peter G. Neumann
July 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 4
Publisher: ACM Press

Full text available: pdf(809.60 KB)   Additional Information: full citation, index terms

10 Dynabook revisited—portable computers past, present and future

Larry Press

March 1992 **Communications of the ACM**, Volume 35 Issue 3

Publisher: ACM Press

Full text available: pdf(2.18 MB)   Additional Information: full citation, references, citings, index terms

11 Migrating to Linux, Part 1: Linux--not just for hackers anymore...

Norman M. Jacobowitz

August 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(13.16 KB)   Additional Information: full citation, index terms

12 Distributed pursuit-evasion: some aspects of privacy and security in distributed computing

P. Spirakis, B. Tampakas

August 1994 **Proceedings of the thirteenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(110.39 KB)   Additional Information: full citation, references, citings, index terms

13 Computational mail as network infrastructure for computer-supported cooperative work

Nathanial S. Borenstein

December 1992 **Proceedings of the 1992 ACM conference on Computer-supported cooperative work**

Publisher: ACM Press

Full text available: pdf(911.62 KB)   Additional Information: full citation, references, citings, index terms

Keywords: CSCW infrastructure, active mail, electronic mail, portability, security

14 Emulation of the IBM system/360 on a microprogrammable computer

George R. Trimble

September 1974 **Conference record of the 7th annual workshop on Microprogramming**

Publisher: ACM Press

Full text available: pdf(821.51 KB)   Additional Information: full citation, abstract, references, index terms

> In recent months, several microprogrammable computers (MCs) have become available. By development of a suitable microprogram, it is possible to extend the basic instruction set of an MC to include special purpose instructions designed to facilitate the processing of a frequently executed application. This paper presents the results of a study of the technical and economic feasibility of the development of an S/360 emulator on an MC. It was concluded that such an emulator could be ...

15 The PRIM system: An alternative architecture for emulator development and use

Joel Goldberg, Alvin Cooperband, Louis Gallenson

September 1977 **ACM SIGMICRO Newsletter , Proceedings of the 10th annual workshop on Microprogramming MICRO 10**, Volume 8 Issue 3

Publisher: IEEE Press, ACM Press

Full text available: pdf(662.26 KB)   Additional Information: full citation, abstract, references, citings, index terms

> The architecture of PRIM is unique in coupling a powerful microprogrammable machine (the Standard Computer Corporation MLP-900) to a modern general-purpose computing

system (the DEC PDP-10). The TENEX timesharing system running in the PDP-10 is responsible for scheduling use of the MLP-900. Emulator microcode runs in the MLP-900 under the control of a small resident executive that swaps its users and mediates references to PDP-10 services and shared memory. The PRIM system in the PDP-10 (al ...

16 Contemporary Concepts of Microprogramming and Emulation

Robert F. Rosin

December 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 4

Publisher: ACM Press

Full text available: pdf(1.40 MB)   Additional Information: full citation, references, citings, index terms

17 NeuroAnimator: fast neural network emulation and control of physics-based models

Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton

July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available: pdf(28.26 MB)   Additional Information: full citation, references, citings, index terms

Keywords: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

18 The design of an emulator for a parallel machine language

Victor R. Lesser

May 1973 **ACM SIGPLAN Notices , Proceedings of the meeting on SIGPLAN/SIGMICRO interface**, Volume 9 Issue 8

Publisher: ACM Press

Full text available: pdf(981.38 KB)   Additional Information: full citation, abstract, references, index terms

A paradigm is developed for structuring a complex emulator operating in a parallel hardware environment. This paradigm is based on the view that a complex emulator is best structured as of a set of microprocesses, each performing a small independent task, that interact in a closely-coupled manner. This is in contrast to the conventional method of structuring an emulator as a set of subroutines with a sequential flow of control among them. The design of an emulator for a parallel machine lan ...

19 The role of emulation in performance measurement and evaluation

Liba Svobodova, Roy Mattson

March 1976 **Proceedings of the 1976 ACM SIGMETRICS conference on Computer performance modeling measurement and evaluation**

Publisher: ACM Press

Full text available: pdf(840.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

Emulation of systems makes it possible to combine the predictive power of simulation with the advantages of measurement carried under a real system workload. An emulator is a microprogrammed implementation of the basic hardware machine. It can be easily instrumented to collect performance statistics on the instruction set processor (ISP) level and support performance measurement of different configurations and software of the emulated system. This paper describes the monitoring capabilities ...

20 Emulation of large systems

S. G. Tucker

December 1965 **Communications of the ACM**, Volume 8 Issue 12

Publisher: ACM Press

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